

Table 2

Active compound	Concentration of active compound in the spray liquor in ppm	Efficacy in % of the untreated control
Control (untreated)	(90% infection)	0
Compound I where $R_n = H$	0.25 0.06	56 33
Compound II = metrafenone = where $R^1 = OCH_3$ , $R^2 = CH_3$ , $R^3 = Br$ , $R^4 = CH_3$	1 0.25 0.06 0.015	72 56 44 33
Compound III = epoxiconazole	1 0.25 0.06 0.015	56 44 33 0
Compound IV = pyraclostrobin	1 0.25 0.06 0.015	33 0 0 0

Table 3

Two-component combination from EP 1 023 834	Observed efficacy	Calculated efficacy*)	Degree of Synergy [%]
Compound II = metrafenone + compound III = epoxiconazole 0.25 + 1 ppm mixture 1 : 4	83	80	3
Compound II = metrafenone + compound III = epoxiconazole 0.06 + 0.25 ppm mixture 1 : 4	78	69	9
Compound II = metrafenone + compound III = epoxiconazole 0.25 + 0.06 ppm mixture 4 : 1	72	70	2
Compound II = metrafenone + compound III = epoxiconazole 0.06 + 0.015 ppm mixture 4 : 1	67	44	23

Table 4

Two-component combination from WO 02/062140	Observed efficacy	Calculated efficacy*)	Degree of Synergy [%]
Compound I where $R_n = H +$ compound II = metrafenone 0.25 + 0.06 ppm mixture 4 : 1	78	75	3
Compound I = where $R_n = H +$ compound II = metrafenone 0.06 + 0.015 ppm mixture 4 : 1	67	56	11
Compound I = where $R_n = H +$ compound II = metrafenone 0.25 + 1 ppm mixture 1 : 4	89	88	1
Compound I = where $R_n = H +$ compound II = metrafenone 0.06 + 0.25 ppm mixture 1 : 4	72	70	2

Table 5

Two-component combination from WO 02/056686	Observed efficacy	Calculated efficacy*)	Degree of Synergy [%]
Compound II = metrafenone + compound IV = pyraclostrobin 0.25 + 1 ppm mixture 1 : 4	78	70	8
Compound II = metrafenone + compound IV = pyraclostrobin 0.06 + 0.25 ppm mixture 1 : 4	56	44	12
Compound II = metrafenone + compound IV = pyraclostrobin 0.25 + 0.06 ppm mixture 4 : 1	78	56	22
Compound II = metrafenone + compound IV = pyraclostrobin 0.06 + 0.015 ppm mixture 4 : 1	72	44	28

Table 6

Three-component combinations claimed	Observed efficacy	Calculated efficacy*)	Degree of Synergy [%]
Compound I where $R_n = H +$ compound II = metrafenone + compound III = epoxiconazole from EP 1 023 834) 0.25 + 0.25 + 1 ppm mixture 1 : 1 : 4	100	93	7
Compound I where $R_n = H +$ compound II = metrafenone + compound III = epoxiconazole 0.06 + 0.06 + 0.25 ppm mixture 1 : 1 : 4	97	85	12
Compound I where $R_n = H +$ compound II = metrafenone + compound III = epoxiconazole 0.25 + 0.25 + 0.06 ppm mixture 4 : 4 : 1	97	88	9
Compound I where $R_n = H +$ compound II = metrafenone + compound III = epoxiconazole 0.06 + 0.06 + 0.015 ppm mixture 4 : 4 : 1	94	78	16
Compound I where $R_n = H +$ compound II = metrafenone + compound III = epoxiconazole 0.25 + 0.06 + 0.25 ppm mixture 4 : 1 : 4	97	88	9
Compound I where $R_n = H +$ compound II = metrafenone + compound III = epoxiconazole 0.06 + 0.015 + 0.06 ppm mixture 4 : 1 : 4	87	78	9
Compound I where $R_n = H +$ compound II = metrafenone + compound III = epoxiconazole 0.25 + 1 + 0.25 ppm mixture 1 : 4 : 1	97	94	3

Three-component combinations claimed	Observed efficacy	Calculated efficacy*)	Degree of Synergy [%]
Compound I where $R_n = H +$ compound II = metrafenone + compound III = epoxiconazole 0.06 + 0.25 + 0.06 ppm mixture 1 : 4 : 1	94	81	13
Compound I where $R_n = H +$ compound II = metrafenone + compound IV = pyraclostrobin 0.25 + 0.06 + 0.25 ppm mixture 4 : 1 : 4	94	78	16
Compound I where $R_n = H +$ compound II = metrafenone + compound IV = pyraclostrobin 0.06 + 0.015 + 0.06 ppm mixture 4 : 1 : 4	78	67	11
Compound I where $R_n = H +$ compound II = metrafenone + compound IV = pyraclostrobin 0.25 + 1 + 0.25 ppm mixture 1 : 4 : 1	100	89	11
Compound I where $R_n = H +$ compound II = metrafenone + compound IV = pyraclostrobin 0.06 + 0.25 + 0.06 ppm mixture 1 : 4 : 1	83	72	11
Compound I where $R_n = H +$ compound II = metrafenone + compound IV = pyraclostrobin 0.25 + 0.25 + 1 ppm mixture 1 : 1 : 4	99	90	9
Compound I where $R_n = H +$ compound II = metrafenone + compound IV = pyraclostrobin 0.06 + 0.06 + 0.25 ppm mixture 1 : 1 : 4	83	70	13

<b>Three-component combinations claimed</b>	<b>Observed efficacy</b>	<b>Calculated efficacy*)</b>	<b>Degree of Synergy [%]</b>
Compound I where $R_n = H +$ compound II = metrafenone + compound IV = pyraclostrobin 0.25 + 0.25 + 0.06 ppm mixture 4 : 4 : 1	100	90	10
Compound I where $R_n = H +$ compound II = metrafenone + compound IV = pyraclostrobin 0.06 + 0.06 + 0.015 ppm mixture 4 : 4 : 1	94	81	13